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July 14, 2004

**CERTIFICATE OF MAILING**  
37 C.F.R. 1.8

I certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

July 14, 2004

Date

*Michael C. Barrett*

Michael C. Barrett

**MS AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 10/811,069 entitled "A METHOD AND SYSTEM FOR IMPROVED IMAGE RECONSTRUCTION AND DATA COLLECTION FOR COMPTON CAMERAS" – Bruce Douglas Smith*  
*Our reference: UTSJ:045US*  
*Client reference: UT/SA:045*

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references A1 and C1-C9.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSJ:045US.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,

*Michael C. Barrett*

Michael C. Barrett  
Reg. No. 44,523

MCB/kmv  
Encl.: as noted



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor Application of:  
Bruce Douglas Smith

Serial No.: 10/811,069

Filed: March 26, 2004

For: A METHOD AND SYSTEM FOR  
IMPROVED IMAGE  
RECONSTRUCTION AND DATA  
COLLECTION FOR COMPTON  
CAMERAS

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: UTSJ:045US

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July 14, 2004

Date

*Michael C. Barrett*

Michael C. Barrett

**INFORMATION DISCLOSURE STATEMENT**

**MS AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

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an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSJ:045US.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,

*Michael C. Barrett*

Michael C. Barrett  
Reg. No. 44,523  
Attorney for Applicant

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Date: July 14, 2004

Form PTO-1449 (modified)

Atty. Docket No.

UTSJ:045US

Serial No.

10/811,069

List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant

Bruce Douglas Smith

Filing Date:

March 26, 2004

Group:

Unknown

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1

## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,861,627	1/19/99	Basko <i>et al.</i>	250	363.04	6/24/97

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Basko <i>et al.</i> , "Application of spherical harmonies to image reconstruction for the Compton camera," <i>Phys. Med. Biol.</i> , 43:887-894, 1998.
	C2	Cree and Bones, "Towards direct reconstruction from a gamma camera based on Compton scattering," 13(2):398-407, 1994.
	C3	Evans <i>et al.</i> , "Deconvolution of shift-variant broadening for Compton scatter imaging," <i>Nuclear Instruments and Methods in Physics Research A</i> , 422:661-666, 1999.
	C4	Horn, "Density reconstruction using arbitrary ray-sampling schemes," <i>Proc. IEEE</i> , 66(5):551-562, 1978.
	C5	Sauve <i>et al.</i> , "3D image reconstruction for a Compton SPECT camera model," <i>IEEE Transactions on Nuclear Science</i> , 46(6):2075-2084, 1999.
	C6	Smith <i>et al.</i> , "Practical and mathematical aspects of the problem of reconstructing objects from radiographs," <i>Bull. Amer. Math. Soc.</i> , 83:1227-1270, 1977.
	C7	Smith, "Computer-aided tomography imaging from cone-beam data," Ph.D. Thesis, University of Rhode Island, 1987.
	C8	Smith, "Cone-beam tomography: recent advances and a tutorial review," <i>Optical Engineering</i> , 29(5):524-534, 1990.
	C9	Smith, "Image reconstruction from cone-beam projections: necessary and sufficient conditions and reconstruction methods," <i>IEEE Transactions on Medical Imaging</i> , MI-4:14-28, 1985.

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EXAMINER:

DATE CONSIDERED:

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